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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,823	07/08/2005	Andreas Katopodis	TX/4-32561A	4724
1095 NOVARTIS	7590 . 02/26/200	EXAMINER		
CORPORATE	INTELLECTUAL PRO	BELYAVSKYI, MICHAIL A		
••••	ALTH PLAZA 104/3 ANOVER, NJ 07936-1080		ART UNIT	PAPER NUMBER
	^ -		1644	
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			02/26/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/522,823	KATOPODIS ET AL.		
		Examiner	Art Unit		
		Michail A. Belyavskyi	1644		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NO - Failui Any r	CRTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. The period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timusely unit apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	I. sely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status			•		
2a) <u>□</u> 3) <u>□</u>	Responsive to communication(s) filed on <u>27 De</u> This action is <b>FINAL</b> . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under <i>E</i>	action is non-final. nce except for formal matters, pro			
Dispositi	on of Claims				
5)□ 6)⊠ 7)□	Claim(s) 1-13 is/are pending in the application 4a) Of the above claim(s) 1 and 3-12 is/are with Claim(s) is/are allowed.  Claim(s) 2 and 13 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	ndrawn from consideration.			
Application	on Papers	•			
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Example 1.	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority u	nder 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
2)  Notice 3)  Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	4) Interview Summary ( Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te		

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## **DETAILED ACTION**

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1. Applicant's amendment, filed 11/27/07 is acknowledged.

Claims 1-13 are pending.

- 2. Applicant's election of Group II, claim 2, now claims 2 and 13 in the reply filed on 11/27/07 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).
- 3. Claims 1, 3-12 are withdrawn from further consideration by the Examiner, 37 C.F.R. § 1.142(b) as being drawn to nonelected inventions.

Claims 2 and 13 read on a method for inducing hematopoietic chimerism in a recipient of cells comprising administering to the recipient bone marrow cells, a LFA-1 inhibitor in combination with costimulation inhibitor or mTOR inhibitor are under consideration in the instant application.

- 4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

  A person shall be entitled to a patent unless --
- (e)) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 37(c) of this title before the invention thereof by the applicant for patent.
- 5. Claims 2 and 13 are rejected under 35 U.S.C. 102(e) as being anticipated by WO' 01/95928(IDS).

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WO' 928 teaches a method of inducing hematopoietic chimerism in a recipient comprising steps of administering a bone marrow cells anti-LFA-1 inhibitor, co-stimulation inhibitor (anti-CD28 or anti-CD40/CD154) and immunosuppressant (see entire document, Abstract and pages 4 and 8 in particular).

The reference teaching anticipates the claimed invention.

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 2 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 6,653,282 or WO 95/34320 each in view of US Patent 6,486,209 and US 2002/01524900

US Patent '282 teaches a method of inducing immune tolerance during organ, tissue or cell transplantation including bone marrow transplantation, i.e. inducing hematopoietic chimerism, comprising administering to the subject a combine therapy of LFA-1 inhibitor and costimulatory inhibitor ( see entire document, Abstract, and column 2 in particular).

WO' 320 teaches a method of inducing immune tolerance during organ, tissue or cell transplantation, including bone marrow transplantation, i.e. inducing hematopoietic chimerism, comprising administering to the subject a combine therapy of LFA-1 inhibitor and costimulatory inhibitor (anti-CD28 or anti- CD40/CD154, etc) (see entire document, Abstract and pages 3, 4, 8, 19 and 22 in particular).

The claimed invention differs from the reference teaching in that US Patent '282 or WO' 320 does not exemplify teaches a method of inducing hematopoietic chimerism, comprising administering a combination of LFA-1 inhibitor, co-stimulation inhibitor and immunosuppressive inhibitor 15-deoxyspergualine.

US Patent '209 teaches a method of transplantation of organ, tissue or cell comprising administering to the subject an immunosuppressive inhibitor 15-deoxyspergualine (see entire document, Abstract, column 5 and claim 1 in particular).

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US '490 teaches a method for inducing hematopoietic chimerism in a subject comprising administering a conventional immunosuppressant treatment using 15-deoxyspergualine (see entire document, page 4 in particular).

All the claimed elements were known in the prior art and one skill in the art could have combine the elements as claimed by known methods with no change in their respective function and the combination would have yield predictable results to one of ordinary skill in the art at the time of the invention (see KSR International Co v Teleflex Inc., 550U.S.-, 82 USPQ2d 1385, 2007).

Thus it would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine a conventional immunosuppressant treatment with 15-deoxyspergualine and a combination of LFA-1 inhibitor and co-stimulation inhibitor (anti-CD28 or anti-CD40/CD154, etc) for inducing hematopoietic chimerism with a reasonable expectation of success. "It is *prima facie* obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose. . . [T]he idea of combining them flows logically from their having been individually taught in the prior art." *In re Kerkhoven*, 626 F.2d 846, 850, 205USPQ 1069, 1072 (CCPA 1980) (see MPEP 2144.06).

Therefore, the invention as a whole was *prima facie* obvious to one of ordinary skill in the art at the time the invention was made, as evidenced by the references, especially in the absence of evidence to the contrary.

- 8. No claim is allowed.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michail Belyavskyi whose telephone number is 571/272-0840. The examiner can normally be reached Monday through Friday from 9:00 AM to 5:30 PM. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eileen O'Hara can be reached on 571/272-0878.

The fax number for the organization where this application or proceeding is assigned is 571/273-8300

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MICHAIL BELYAVSKYI, PH.D. PRIMARY EXAMINER

2/15/08